**OVERVIEW**

<p>| | | | | | |</p>
<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>USB 3.2 Gen 1</td>
<td>4</td>
<td>Thunderbolt 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>USB 3.2 Gen 1 (Always On)</td>
<td>5</td>
<td>HDMI 2.0b</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>Kensington Nano Security Slot</td>
<td>6</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
<td></td>
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</tr>
</tbody>
</table>
PERFORMANCE

Processor

Processor Family
11th Generation Intel® Core™ i5 / i7 Processor

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
<th>Memory Support</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i5-1135G7</td>
<td>4</td>
<td>8</td>
<td>2.4GHz</td>
<td>4.2GHz</td>
<td>8MB</td>
<td>LPDDR4x-4266</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core i7-1165G7</td>
<td>4</td>
<td>8</td>
<td>2.8GHz</td>
<td>4.7GHz</td>
<td>12MB</td>
<td>LPDDR4x-4266</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System
- Windows® 10 Home 64
- Windows 10 Pro 64
- No operating system

Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Iris Xe Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support
Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 3840x2160@60Hz) or Thunderbolt™ (up to 7680x4320@30Hz)

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Memory Type
LPDDR4x-4266

Memory Slots
Memory soldered to systemboard, no slots, dual-channel (8GB or 16GB model)

Max Memory
- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable

Notes:
1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

Storage

Storage Support
One drive, 1x M.2 2280 SSD or 1x M.2 2242 SSD
- M.2 2280 SSD up to 1TB
- M.2 2242 SSD up to 512GB

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 4.0 x4</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Removable Storage
Optical
None
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3306 codec
Speakers
• Stereo speakers, 2W x2, Dolby® Audio™, HARMAN-branded
• Stereo speakers, 2W x2, Dolby Audio, HARMAN-branded, Smart AMP
Microphone
Dual array microphone
Camera
720p, with ThinkShutter, fixed focus

Battery
Battery
Integrated Li-Polymer 56Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
Max Battery Life
MobileMark® 2014: 16 hr
MobileMark 2018: 12.1 hr
Notes:
1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, and/or JEITA 2.0 battery-life benchmark tests. Actual battery life will vary and depends on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

Power Adapter
Power Adapter
• 65W USB-C slim (Wall Mount) AC adapter
• 65W USB-C AC adapter
Notes:
1. 65W USB-C Slim (Wall Mount) AC adapter is only available in selected countries

DESIGN
Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
<th>Type</th>
<th>Brightness</th>
<th>Surface</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>170°</td>
<td>Dolby Vision™</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>None</td>
<td>IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>170°</td>
<td>Low Power, Dolby Vision</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WQXGA (2560x1600)</td>
<td>Multi-touch</td>
<td>IPS</td>
<td>300 nits</td>
<td>Glossy</td>
<td>16:10</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>170°</td>
<td>Low Power, Dolby Vision</td>
</tr>
<tr>
<td>13.3&quot;</td>
<td>WUXGA (1920x1200)</td>
<td>None</td>
<td>IPS</td>
<td>300 nits</td>
<td>Anti-glare</td>
<td>16:10</td>
<td>1000:1</td>
<td>100% sRGB</td>
<td>170°</td>
<td>Dolby Vision</td>
</tr>
</tbody>
</table>

Touchscreen
• Capacitive-type multi-touch, supports 10-point touch
• Non-touch

Notes:
1. California Electronic Waste Recycling Fee
   In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to https://www.cairecycle.ca.gov/Electronics/Consumer

Input Device
Keyboard
6-row, spill-resistant, multimedia Fn keys
Keyboard Backlight
LED backlight
Touchpad
Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP)

Mechanical
Dimensions (WxDxH)
299 x 210 x 14.9 mm (11.77 x 8.27 x 0.59 inches)
Weight
1.26 kg (2.78 lbs)
Case Color
Mineral grey, dual tone design
Surface Treatment
Anodizing sandblasting
Case Material
Aluminium (top), aluminium (bottom)

CONNECTIVITY

Network
Onboard Ethernet
No Ethernet
WLAN + Bluetooth™
Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

Notes:
1. WiFi 6 full features might be limited by country level restrictions
   BT5.1 is supported on Windows 10 version 2004 or above (limited to BT5.0 on earlier version)

Ports

Standard Ports
1x USB 3.2 Gen 1
1x USB 3.2 Gen 1 (Always On)
1x Thunderbolt 4 / USB4™ 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
1x HDMI 2.0b
1x headphone / microphone combo jack (3.5mm)

Notes:
1. The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.
   USB 2.0: 480 Mbit/s;
   USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;
   USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;
   USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
   Thunderbolt 3: 40 Gbit/s;
   FireWire 400: 400 Mbit/s;
SECURITY & PRIVACY

Security

Security Chip
- Discrete TPM 2.0, TCG certified
- Firmware TPM 2.0 integrated in chipset

Physical Locks
Kensington® Nano Security Slot

Fingerprint Reader
Touch style fingerprint reader on smart power button

BIOS Security
- Power-on password
- Supervisor password
- Hard disk password

Other Security
ThinkShutter camera cover

SERVICE

Warranty

Base Warranty
- 1-year depot service
- 1-year depot with 2-year system board service
- 2-year (1-yr battery) depot service

ENVIRONMENTAL

Operating Environment

Temperature[
- At altitudes up to 2438 m (8000 ft)
  - Operating: 5°C to 35°C (41°F to 95°F)
  - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

Humidity
- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)

Altitude

Maximum altitude (without pressurization): 3048 m (10 000 ft)

Notes:
1. When you charge the battery, its temperature must be no lower than 10°C (50°F)

CERTIFICATIONS

Green Certifications

Green Certifications
- EPEAT™ Silver
- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant
Other Certifications
Mil-Spec Test
MIL-STD-810G military test passed

Other Certifications
• TUV Low Blue Light certified
• (Optional) Intel Evo™ Platform